**AP Biology Meiosis and Sexual Reproduction (Chapter 10 Outline)**

*Vocabulary*: Define in your own words

Alleles-

Synapsis-

Crossing-over-

Independent assortment-

fertilization-

Gametophyte-

Sporophyte-

Nondisjunction-

Euploidy-

Monosomy-

Trisomy-

Briefly describe the following concepts:

What are the two main ways that meiosis contributes to genetic diversity in offspring?

Why are meiosis and sexual reproduction important to organisms being able to respond to a changing environment?

What is a homologous pair of chromosomes?

How do meiosis I and meiosis II differ? Which one is more similar to mitosis?

What would happen if homologous chromosomes lined up top to bottom instead of side by side during meiosis I?

Describe the process of spermatogenesis.

Describe the process of oogenesis. Make sure to include a the terms secondary oocyte and polar body in your discussion.

***ABOUT THE READING:***

*After reading about this topic I learned that…*

Write three things that you learned about the Meiosis*:*

*1.*

*2.*

*3.*